
HT805 Series

HT805S - HT805C - HT805T - HT805W

Owner's Manual



SUPERIOR LISTENING SYSTEMS
AUDIO CLARITY REDEFINED



Important Safety Instructions

CAUTION



To reduce the risk of electric shock, do not remove the back panel of the HT805W. There are no user-serviceable parts inside. Refer servicing to SLS Loudspeakers or qualified personnel.

General Safety

- Read and follow all warnings, operating and safety instructions in this manual and on the unit.
- Do not use the HT805W near bathtubs, sinks, swimming pools, or other locations where water is present.
- The speakers should be positioned firmly on a level surface. Make sure that the supporting object can handle the load weight of the speaker.
- The line voltage selection switch must be set for the correct AC voltage present in the region of use (115VAC or 230VAC). Operating the speaker outside these voltages or opposite of the selector switch setting may damage the electronics.
- For continued protection against risk of fire, replace only with same type of fuse and rating for operational voltage selection.
- Do not place the HT805W near heat sources such as stoves, heat registers, radiators, or other appliances that produce heat.
- Power supply cords should be placed so that they will not be pinched by objects being placed on or against them.
- During extended periods of non-use, the power cord should be unplugged from the outlet.
- Do not expose the HT805W to rain or moisture. Fire or electrical shock may result.

Compliance

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.



Introduction

Welcome to SLS

Thank you for choosing SLS Loudspeakers! SLS Loudspeakers is a leader in digital amplification and ribbon technology allowing for a new level of sound reproduction, clarity, and definition. Various technologies and components within the HT805 Series are proprietary to SLS and protected under letters patent. Should you need to contact SLS you can visit our website at www.slsaudio.com or contact our headquarters:

SLS Loudspeakers
1650 W. Jackson
Ozark, MO 65721
866-395-5345 (Toll Free)
417-883-4549

Unpacking

The HT805 Series loudspeakers are individually shipped in heavy-duty cardboard boxes and are protected inside by foam packing material.

Step 1: Cut sealing tape on bottom or top end, fold the carton flaps back and invert box and contents.

Step 2: Carefully lift the carton clear of inner contents.

Note: do not cut through carton with sharp objects, as you might damage cabinet finish.

We suggest you retain the packaging for possible future use

CAUTION



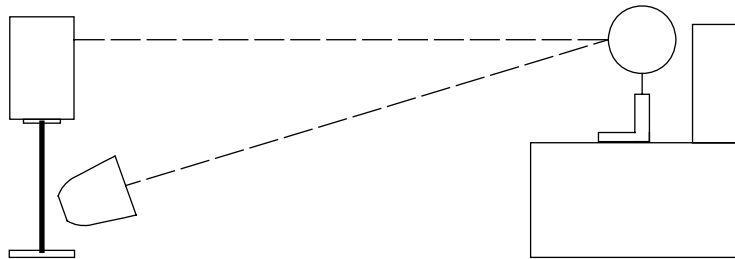
The speakers should be positioned firmly on a level surface. Make sure that the supporting object can handle the load weight of the speaker. If a third party mounting bracket is used, confirm that the bracket is firmly mounted to the structure. Serious injury can occur from dislodged speakers.



General Use and Operation

Loudspeaker Positioning

The HT805 Series (except the subwoofer) has a very defined vertical dispersion, which helps prevent interaction with the floor and ceiling and extends the nearfield listening area. It is important to set the speakers so the ribbon is approximately at the ear level of the listener(s). The speaker may also be tilted for proper aiming relative to the height that the speaker is placed.



The **HT805S** model should be used with a well damped speaker stand or placed on a braced shelf to achieve the correct height. The best speaker stands are usually hollow steel that are filled with either sand or lead shot. The cabinet also has a provision for a third party wall mount bracket such as the MultiMount™ MM-022 from Allen Products. The speaker should maintain at least a 6" clearance from the rear wall for proper operation of the bass port.

The **HT805C** model comes with a tray for vertical ribbon alignment when it is placed below ear level (such as underneath a plasma screen). The **HT805C** can be moved front to back on this tray to adjust the vertical angle of the cabinet. The cabinet also has a provision for a third party wall mount bracket such as the MultiMount™ MM-022 from Allen Products. The **HT805C** may also be used in the upright position with a speaker stand. In this configuration the ribbon should be rotated 90 degrees.

The **HT805T** versions are built to the correct height of a typical listening position. They should be placed on the floor and not be angled vertically. They are provided with adjustable feet for stability and leveling on carpet or hard surfaces.

The **HT805W** subwoofer(s) should be placed near or between the front line of speakers. Placing it in a corner will produce more bass but the sound may lose clarity. We recommend spending some time experimenting with the best location using the phase and volume level on the subwoofer to determine the best combination for your particular room and preferences. A shortcut to accomplish this is to temporarily place the subwoofer at your primary listening location. Listen at multiple areas in your room where you could place the subwoofer. Listen to music for clarity and balance in the bass tones or listen to the noise source in your Home Theater receiver - processor for smoothness and maximum extension. If you find a spot that you like, move the subwoofer to that spot and the sound will be matched at your primary listening location. This also can be done when multiple subwoofers are used in larger rooms. Try to pick spots that are asymmetrical to the room dimensions as it will help overcome some effects of low frequency room resonances.

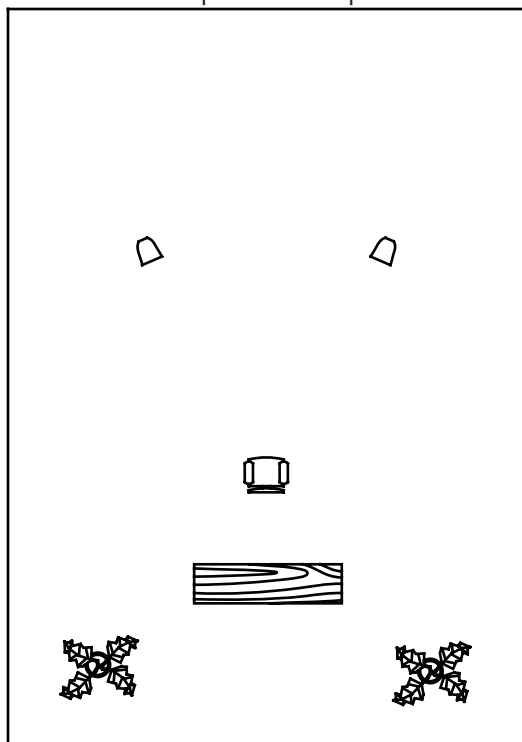


Loudspeaker Positioning (cont.)

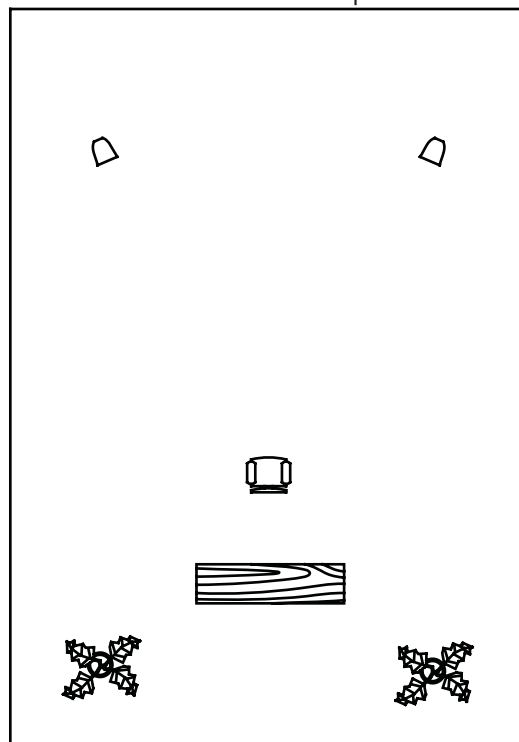
For the best stereo imaging setups, position the speakers and the listening area at approximately the corners of an equilateral triangle. The larger the triangle, the bigger the soundstage but a less clearly defined center image. The room will also play an increasing role in the sound. The smaller the triangle, the more immediate the presentation but with a smaller soundstage. We encourage you to experiment within the following guidelines.

- The speakers should be distanced away from the rear wall at least 6" to allow for proper operation of the bass port, however for the best presentation in your room the distance between the loudspeaker and the rear wall should be $\frac{1}{3}^{\text{rd}}$ the length of the room. If this is not practical try $\frac{1}{5}^{\text{th}}$ the distance. If the speaker needs to be placed close to the rear wall, it should be treated with a sound absorbing material.
- The listening position should be $\frac{2}{3}^{\text{rds}}$ of the way into the room.
- The speaker position relative to the room's side walls should not be within 33 percent of the distance to the back wall in order to smooth room nodes. For an example if the speaker is 4ft from the back wall it should be no more then 3ft or greater then 5.3ft from the side wall.
- It is also recommended to toe in the left and right speakers so that the ribbon axis is aimed at a point slightly behind the center of the listening area.

Speakers at $\frac{1}{3}$ distance from rear wall
Optimum Setup



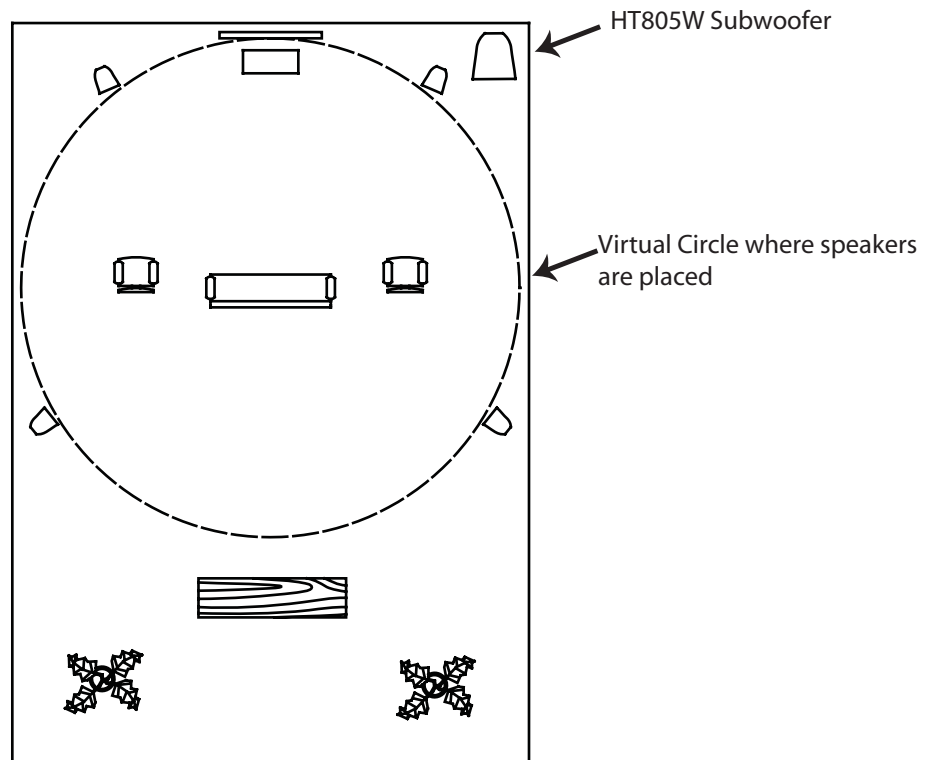
Speakers at $\frac{1}{5}$ distance from rear wall
2nd Choice Setup





Loudspeaker Positioning (cont.)

In **home theater** setups it is best to try and keep all the speakers at an equal distance from the listening position. If this is not possible, use the level and delay controls on the electronics you are using to level match and time align the signal from each speaker location. You may use the "Large" speaker setting on all HT805 series models.



Ribbon Rotation

Whatever vertical orientation the speaker ends up in make sure the ribbons rectangular opening is always long ways up. This provides the best horizontal coverage for the listening area. If the ribbon needs to be rotated, remove the four screws and gently lift the unit out. Rotate it 90 degrees, place it back in the cabinet and replace the four screws.

Audio Connection

The HT805 Series (except subwoofer) come standard with dual binding posts that are bi-wire capable. In a normal setup, attach the positive and negative speaker wire ends to either set of binding posts (red is normally positive, black negative). The gold plated links that are already attached to the binding posts will route the signal to both the woofers and the ribbon. If bi-wiring is preferred, remove the links and run 2 pairs of separate cables between the speaker and amplifier. The ribbon is the top set of binding posts, the woofer(s) the bottom set. Depending on the cable used, this can sometimes improve resolution of low-level detail. No additional equipment is needed to bi-wire as removing the links does not bypass the internal crossover network.



Audio Connection (cont.)

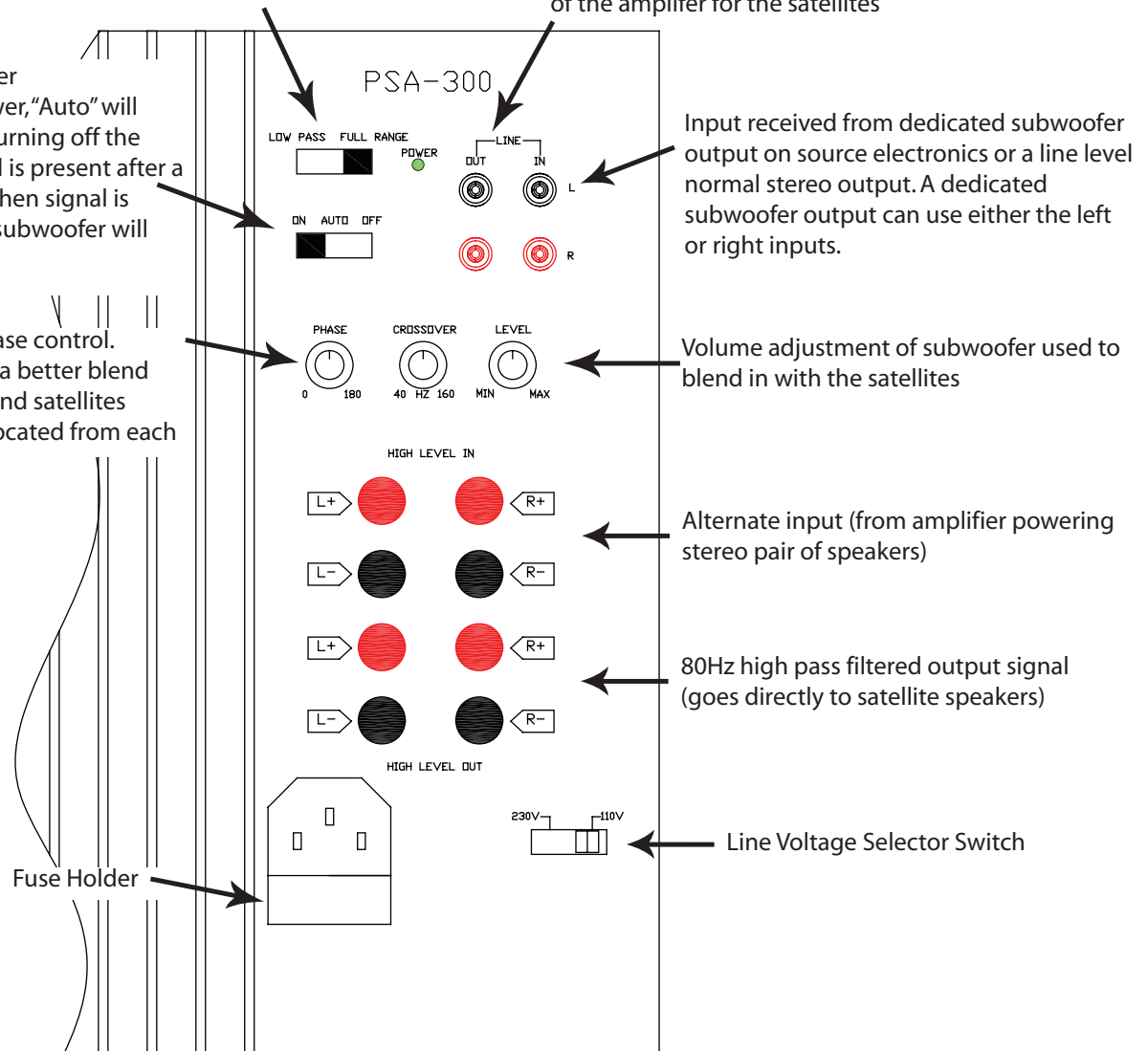
The HT805W subwoofer will accept both line level signals via RCA jacks or speaker level signals from an amplifier via the binding posts. Do not use a mixture of line level and speaker level connections. Whenever possible, use the line level connections.

Use of the Full Range setting uses your receiver - processor to control the crossover point between the subwoofer and satellites. Alternatively, use the Low Pass when connected to a normal stereo output or when your receiver - processor settings give unsatisfactory results. Low Pass will engage the crossover knob for high frequency cut-off adjustment (typically set around 80Hz when used with the HT Series Satellites)

Unaltered pass-through output signal (exactly matches input signal) Used for optional additional subwoofers or in the case of a line level stereo output, they would go to the input of the amplifier for the satellites

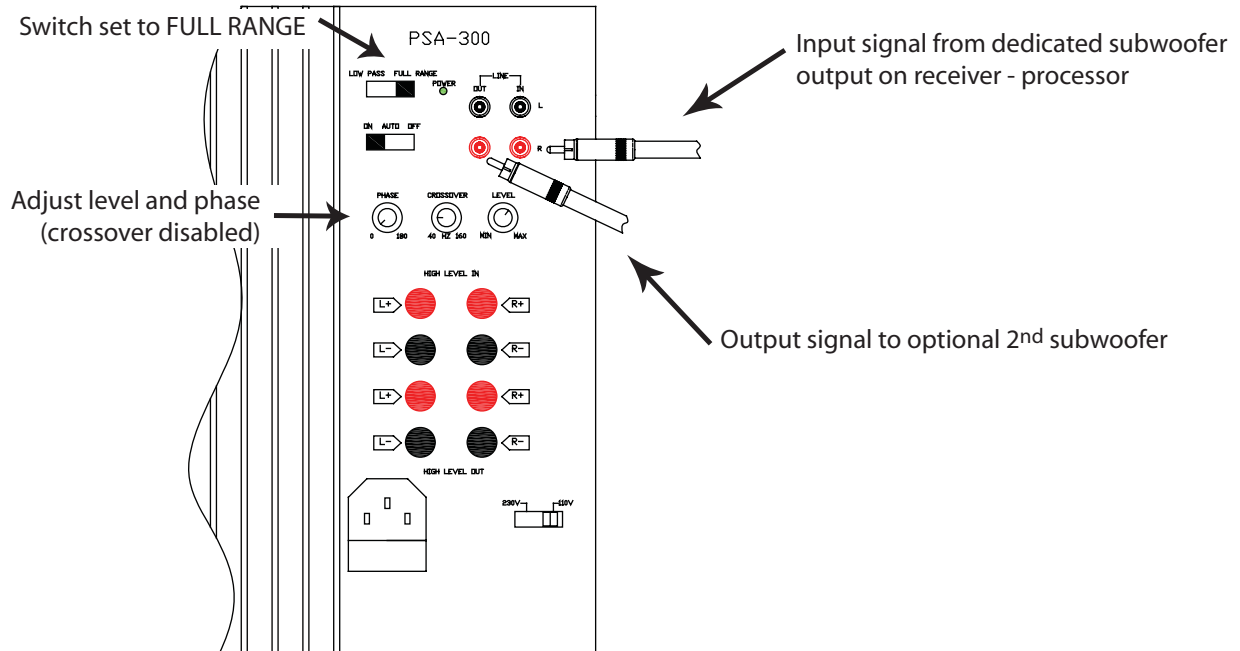
Power switch for subwoofer
"On" will always apply power, "Auto" will engage the sense circuit turning off the subwoofer when no signal is present after a period of about 5 mins. When signal is present at the inputs, the subwoofer will automatically turn on.

Continuously variable phase control.
Adjustments can provide a better blend between the subwoofer and satellites when they are remotely located from each other.

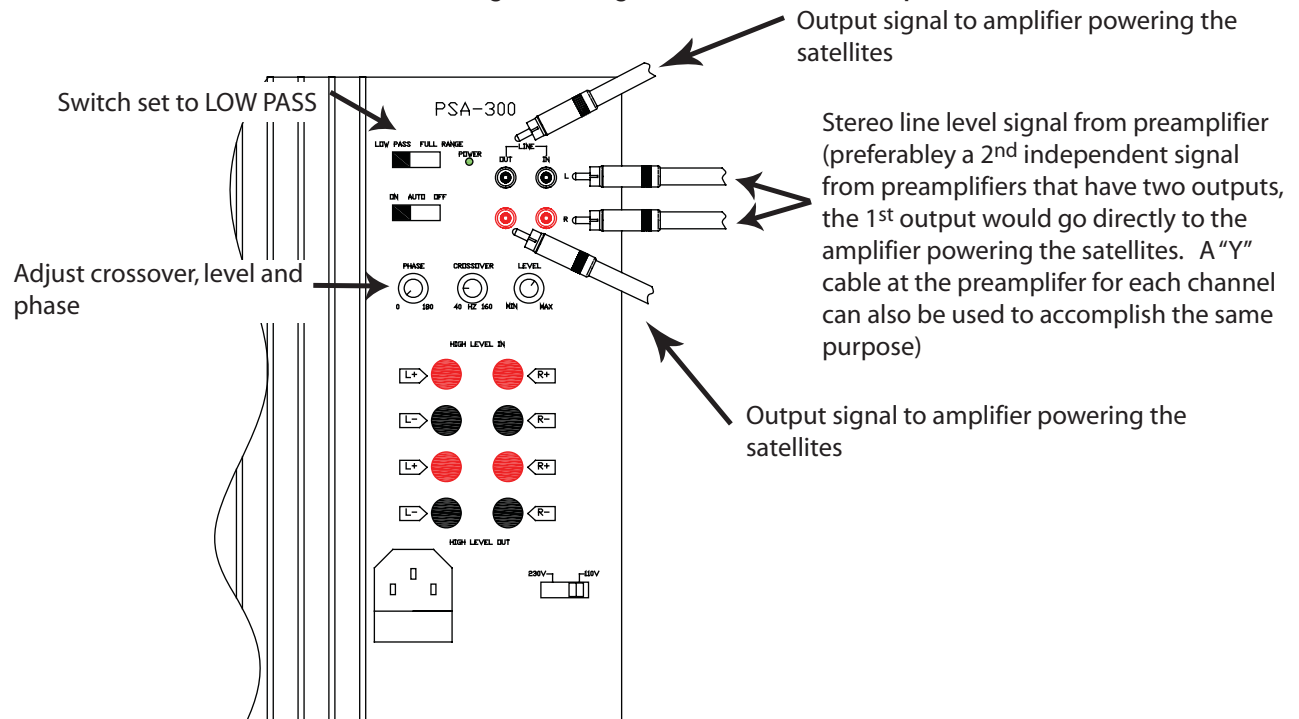




Connection Diagram using a dedicated subwoofer output

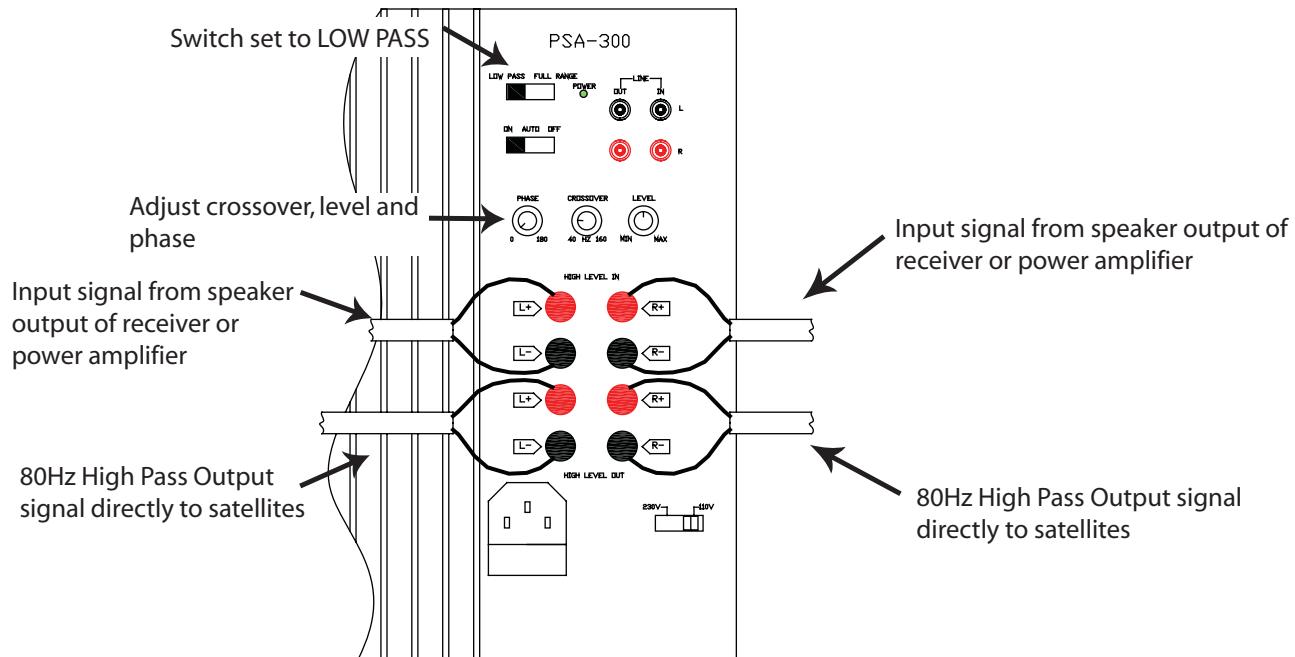


Connection Diagram using a line level stereo output





Connection Diagram using a speaker level stereo output



Stray Magnetic Fields

The ribbon used in the HT805 series does not produce any stray magnetic fields however the high performance woofers used in the designs do create a small field. We recommend that all susceptible display devices maintain at least 12" clearance from the speaker enclosures. These would not include Plasma, projection or LCD televisions. Those technologies are immune to magnetic interference.

Finish Care

All cabinets in the HT805 series feature high quality finishes. Care for them as you would any piece of fine furniture.

Break In

The HT805 series benefits from a 24 hour break-in period at reasonable sound level before reaching optimum sound quality.



4. Specifications

Model	HT805S	HT805C	HT805T
Operating Range	44 – 40,000Hz	52 – 40,000Hz	30 – 40,000Hz
Sensitivity (1W/1m)	90dB	93dB	93dB
Horizontal Coverage Angle -6dB	120 Degrees	120 Degrees	120 Degrees
Vertical Coverage Angle -6dB	30 Degrees	30 Degrees	30 Degrees
Power Handling	125 Watts RMS	250 Watts RMS	250 Watts RMS
Max SPL(calculated) @ 1 Meter	111dB Cont. / 117dB Peak	117dB Cont. / 123dB Peak	117dB Cont. / 123dB Peak
Recommended Amp Power for Max Output	250 Watts	500 Watts	500 Watts
Nominal Impedance	8 Ohms	4 Ohms	4 Ohms
Crossover Frequency	1500Hz Passive	1500Hz Passive	1500Hz Passive
Transducers – High Freq.	PRD500 Ribbon	PRD500 Ribbon	PRD500 Ribbon
Low Freq.	8" Woofer	8" Woofer x2	8" Woofer x2
Input	Dual Binding Posts in Bi-Wire Configuration	Dual Binding Posts in Bi-Wire Configuration	Dual Binding Posts in Bi-Wire Configuration
Dimensions	19" (48.3cm)H 10.5" (26.7cm)W 11.25" (28.6cm)D	10.5" (26.7cm)H 27" (68.5cm)W 11.25" (28.6cm)D	45" (114.3cm)H 10.5" (26.7cm)W 12.5" (31.8cm)D
Weight	25lbs (11.3kg)	40lbs (18kg)	66lbs (30kg)
Mounting	Attachment Point for 3 rd Party Hardware	Attachment Point for 3 rd Party Hardware	Floor Standing Only
Finish Options	Rosenut, Cherry and High Gloss Black	Rosenut, Cherry and High Gloss Black	Rosenut, Cherry and High Gloss Black

Model	HT805W
Operating Range	28 – 160Hz
Max SPL(calculated) @ 1 Meter	115dB Cont. / 121dB Peak
Amp Power	300 Watts
Crossover Frequency	50Hz – 160Hz Variable
Transducer	12" High Excursion Poly-cone
Input/Output Connections	Low Level RCA L/R Speaker Level Binding Post L/R
Dimensions	18" (45.7cm)H 15.25" (38.7cm)W 18.5" (47cm)D
Weight	60lbs (27kg)
Mounting	Floor Standing Only
Finish Options	Rosenut, Cherry and High Gloss Black